

### Segment 4 Concept Options Comparison

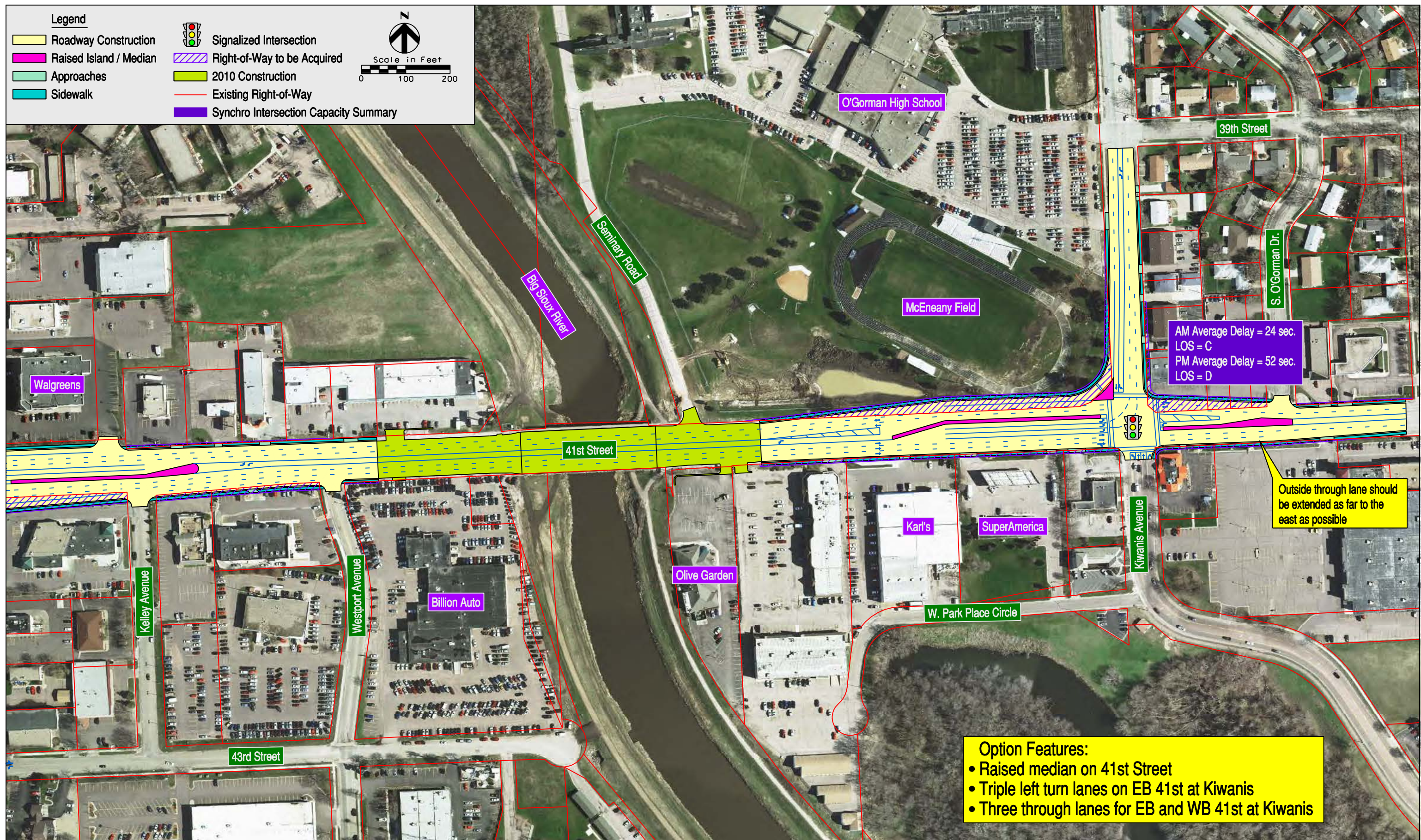
Consultant  
recommended option

Option	A - Triple lefts and 3 WB through lanes	B – Raised median and 3 WB through	C - No raised median and 2 WB through	D - Raised median and 2 WB through	E - Flyover ramp
Year 2035 Traffic Operations (PM)					
Kiwanis Avenue intersection (1)					
Level of Service (LOS)	D	E	E	E	D
Avg. Delay (seconds)	52	60	77	77	43
Roadway Safety	Poor	Poor	Poor	Good	Good
Right-of-Way Impacts	Major	Moderate	Minimal	Minimal	Moderate
Construction Cost	Moderate	Moderate	Moderate	Moderate	High
Ease of Construction	Moderate	Moderate	Simple	Simple	Complex
Traffic Impacts during Construction	Moderate	Moderate	Minimal	Minimal	Major
Business/landowner Acceptance	Poor	Poor	Good	Poor	Poor
Expected Driver Acceptance	Poor	Good	Good	Good	Unknown
Meets design guidelines	Yes	Yes	No	Yes	Yes

Benefits/drawbacks of options as well as basis of Consultant Recommended Option are listed on the project website:

[http://www.sddot.com/pe/projdev/planning\\_ss\\_I29Exit77.asp](http://www.sddot.com/pe/projdev/planning_ss_I29Exit77.asp)





Drawn By: B. Miller  
Date: 9-21-2011  
Checked By: J. Unruh  
Date: 9-21-2011  
Revisions: 3-9-2012

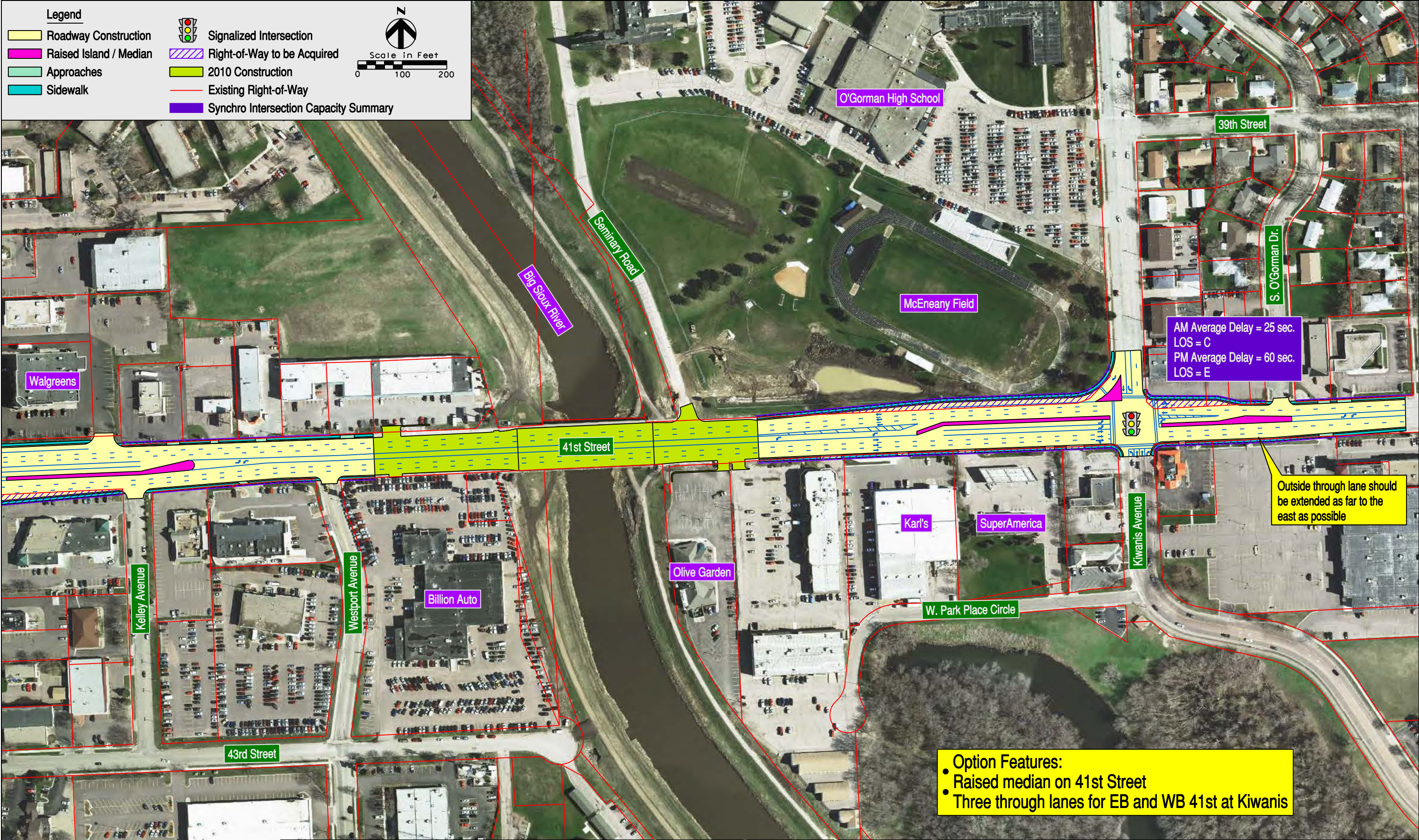


41st Street from Louise Avenue to Kiwanis Avenue  
Improvement Option A  
I-29 Exit 77 (41st Street) Crossroad Corridor Study Sioux Falls, SD

Figure  
6-4A

Date of Aerial Photography: 2008





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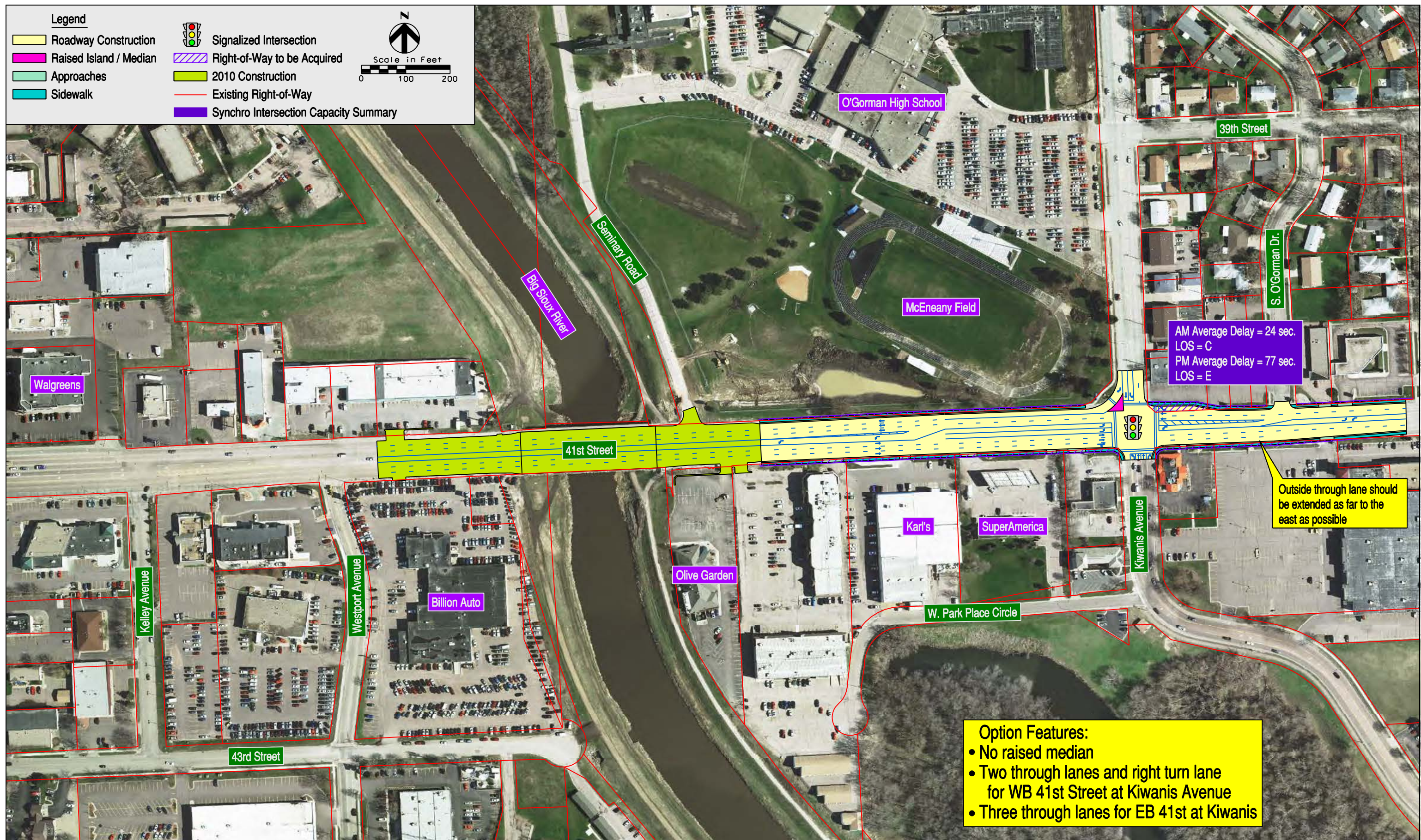


41st Street from Louise Avenue to Kiwanis Avenue  
Improvement Option B  
I-29 Exit 77 (41st Street) Crossroad Corridor Study      Sioux Falls, SD

Figure  
6-4B

Date of Aerial Photography: 2008





Drawn By: B. Miller  
Date: 9-21-2011  
Checked By: J. Unruh  
Date: 9-21-2011  
Revisions: 3-9-2012

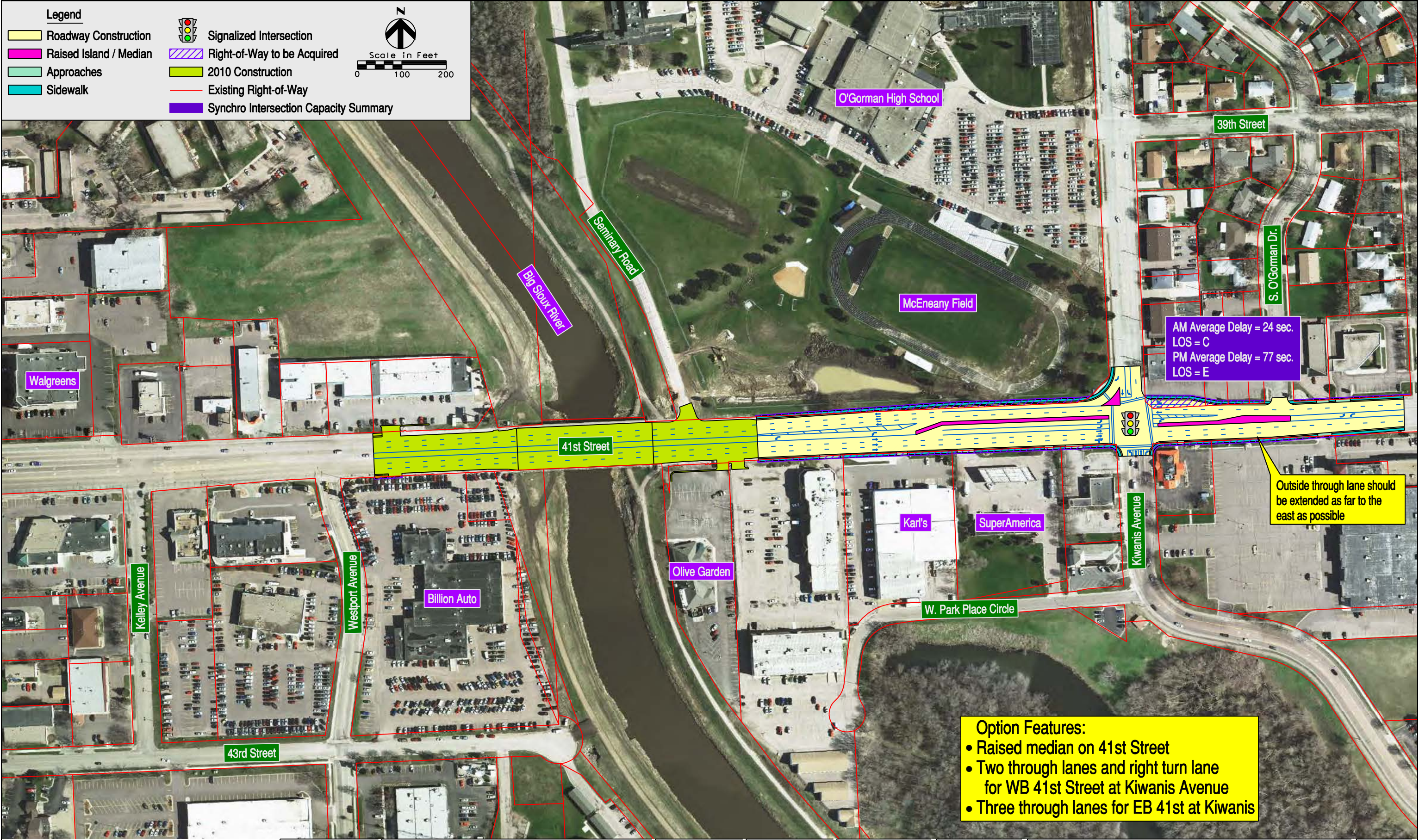


41st Street from Louise Avenue to Kiwanis Avenue  
Improvement Option C  
I-29 Exit 77 (41st Street) Crossroad Corridor Study  
Sioux Falls, SD

Figure  
6-4C

Date of Aerial Photography: 2008





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41st Street from Louise Avenue to Kiwanis Avenue  
Improvement Option D  
I-29 Exit 77 (41st Street) Crossroad Corridor Study  
Sioux Falls, SD

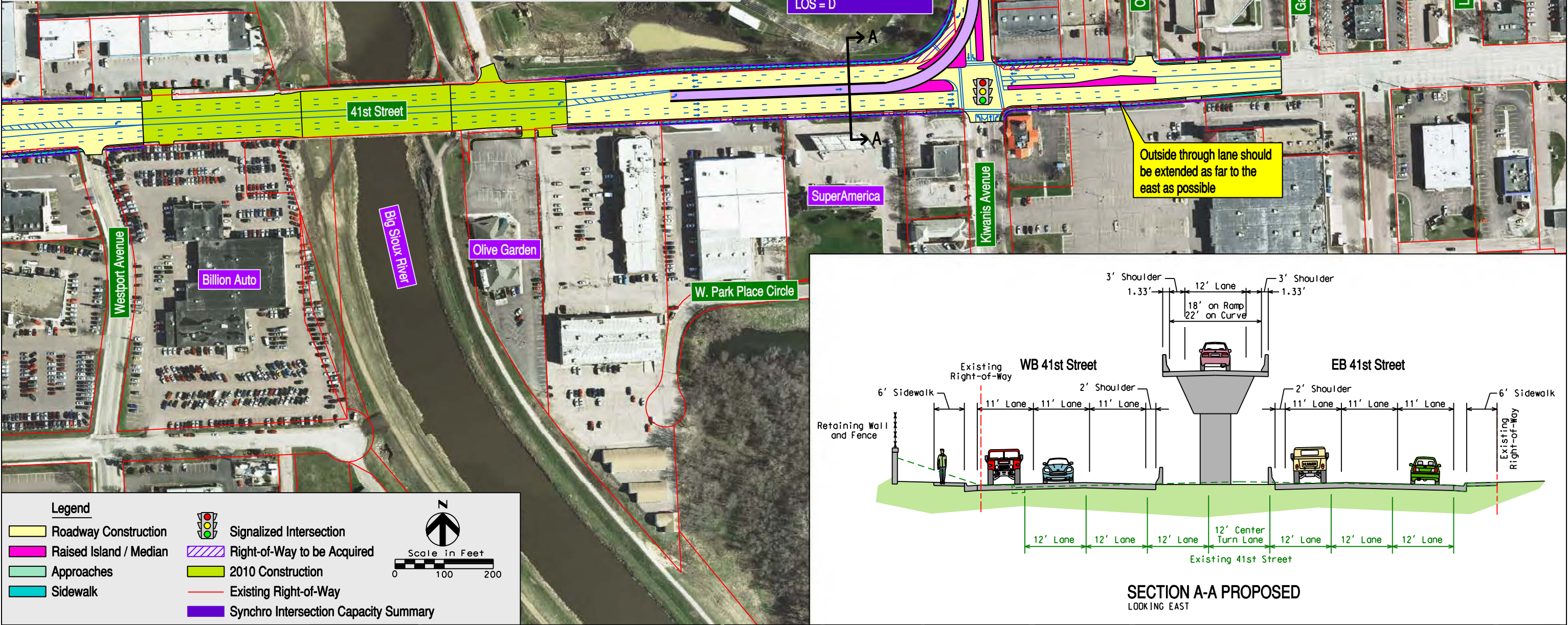
Figure  
6-4D

Date of Aerial Photography: 2008





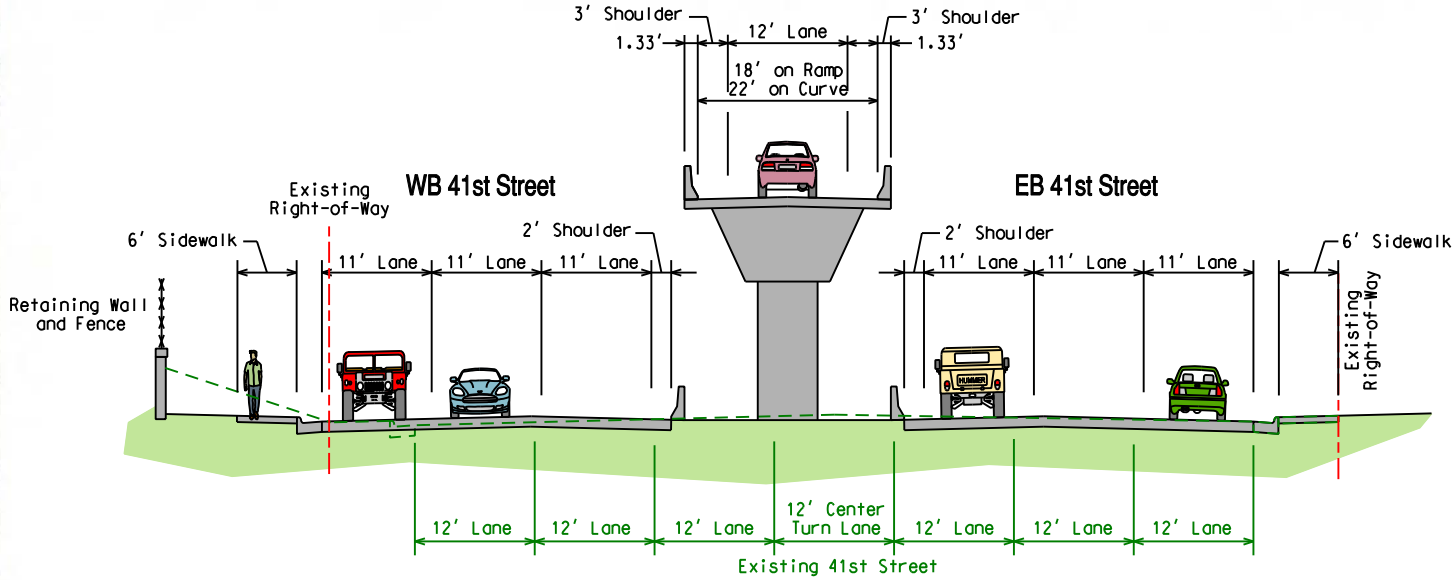
Photo of Flyover Ramp in Las Vegas



- Option Features:
- Flyover ramp from EB 41st Street to NB Kiwanis Avenue
  - Three through lanes for EB 41st Street at Kiwanis Avenue

AM Average Delay = 21 sec.  
LOS = C  
PM Average Delay = 43 sec.  
LOS = D

Outside through lane should be extended as far to the east as possible



SECTION A-A PROPOSED  
LOOKING EAST

Drawn By: B. Miller  
Date: 9-21-2011  
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41st Street from Big Sioux River to Kiwanis Avenue  
Improvement Option E - Flyover  
I-29 Exit 77 (41st Street) Crossroad Corridor Study  
Sioux Falls, SD

Figure  
6-4E